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TITLE: PRETREATMENT OF ANALYTICAL SAMPLE BY COMBUSTION PIPE
PUBN-DATE: October 21, 1997
INVENTOR-INFORMATION:
NAME
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ABSTRACT:

PROBLEM TO BE SOLVED: To enhance analyzing efficiency by automating
pretreatment forming a sample soln. by pyrolysis.

SOLUTION: A vertical quartz combustion pipe 1 is divided into an upper
combustion part 2 and a lower combustion gas collection part 6. Oxgen
supplied
by the combustion of a sample forms a spiral gas stream rotating at a
high
speed along the inner wall of the high temp. combustion part from a jet
nozzle
7. A sample capsule falls along with this oxygen to emit intense heat to
be
burnt and combustion gas is introduced into the collection part 6 of
which the
exhaust system is closed under pressure. After cooling, an absorbing
soln.
sprayed from the upper part of the collection part is accumulated in the
lower
part of the collection part to enter a jet pipe from a discharge conduit
9 by
the pressure in the combustion pipe. The absorbing soln. is jetted to an
upper
reflecting surface of the jet nozzle 7 provided to the lower part of the
collection part by the pressurization of this pipe to be scattered and
circulating jetting is repeated. The gas-liquid mixing by this
scattering and
shaking effect by jetting and an impact accelerate the absorption of
combustion
gas by the absorbing soln. and the reduction and oxidation by an addive
and the
absorbing soln. is sent to a measuring system. The same process is
performed
two or three times and all of the absorbing soln. is set to a difinite
amt. to
perform measurement.